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- 1N4150-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/231
- 1N3600 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/231
- SWITCHING DIODES
- HERMETICALLY SEALED
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

1N4150 and 1N4150-1 and 1N3600

Jameco Part Number 35967

MAXIMUM RATINGS

Junction Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
Operating Current: 300 mA @ T_A = +25°C
Derating: 2.0 mA dc/°C Above T_L = + 75°C @ L = 3/8"
Forward Surge Current: 4A, (tp = 1µs); 0.5A (tp = 1s)

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

Type	V_{BR} I_R = 10 µA	V_{RWM}	I_{R1} V_R = 50 V dc T_A = 25°C	$^1 I_{R2}$ V_R = 50 V dc T_A = 150°C	C V_R = 0; f = 1 Mhz; ac signals = 50 mV (p-p)	t_{rr} I_F=I_R=10 to 100 mA dc R_L = 100 ohms
	V dc	V (pk)	µA dc	µA dc	pF	ns
1N3600	75	50	0.1	100	2.5	4
1N4150,-1	75	50	0.1	100	2.5	4

FORWARD VOLTAGE LIMITS – ALL TYPES

Limits	V_{F1} I_F = 1 mA dc	V_{F2} I_F = 10 mA dc	V_{F3} I_F = 50 mA dc (Pulsed)	V_{F4} I_F = 100 mA dc (Pulsed)	V_{F5} I_F = 200 mA dc (Pulsed)
	V dc	V dc	V dc	V dc	V dc
minimum	0.540	0.660	0.760	0.820	0.870
maximum	0.620	0.740	0.860	0.920	1.000

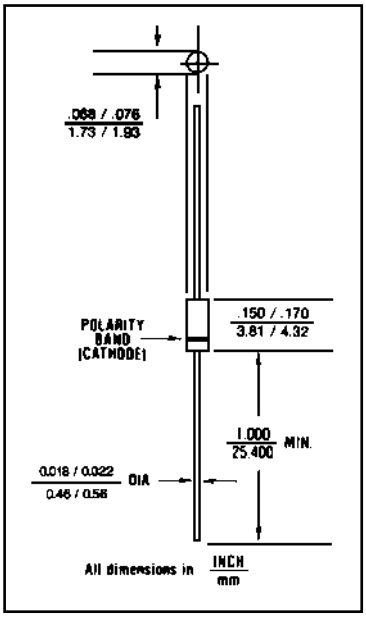

FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/231 D0-35 outline.

LEAD MATERIAL: Copper clad steel.

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JL}$): 250 °C/W maximum at L = .375

THERMAL IMPEDANCE: ($Z_{\Theta JX}$): 70 °C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any.

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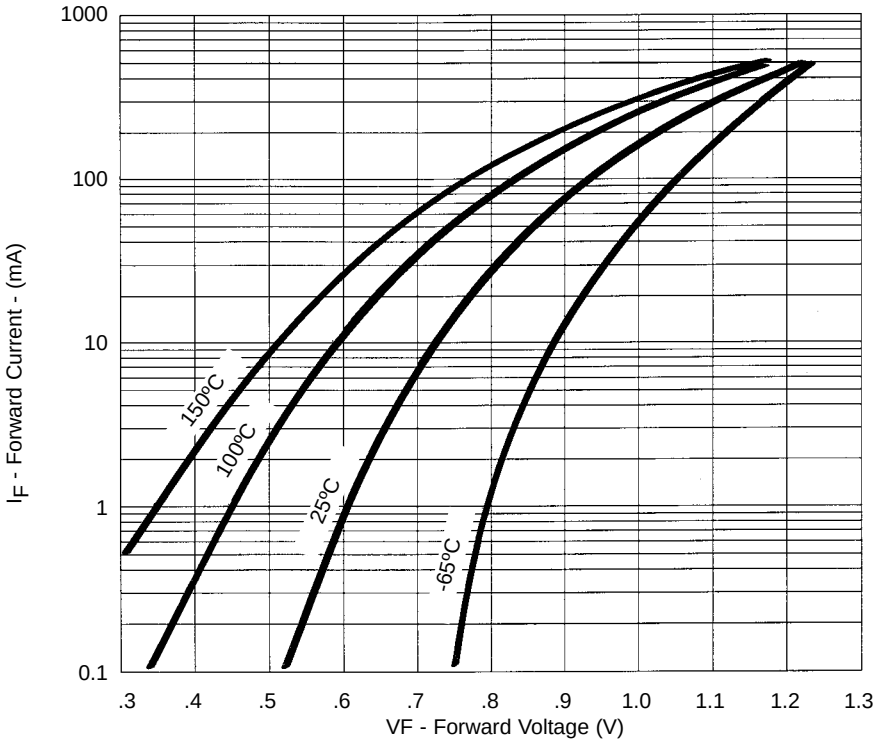

FIGURE 2
Typical Forward Current
vs Forward Voltage

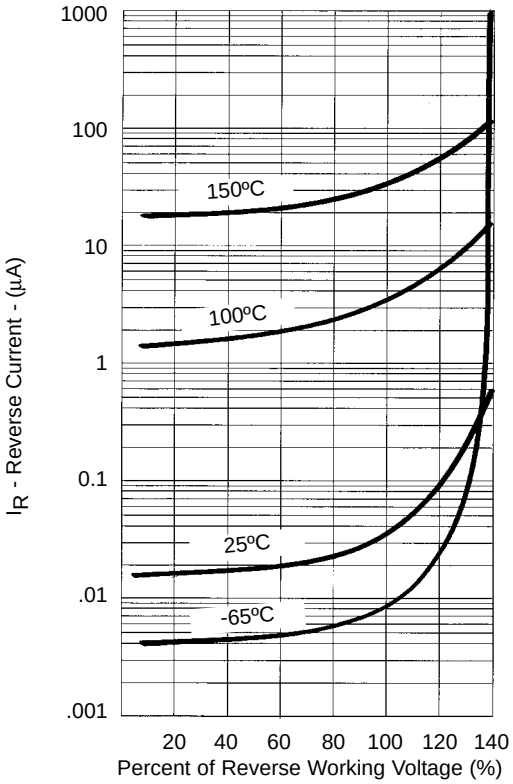

FIGURE 3
Typical Reverse Current
vs Reverse Voltage

NOTE : All temperatures shown on graphs are junction temperatures